## SEQUENCE LISTING

	<:	110>	Tra	vis	. Kn J. To th Mo	aylo										
	<:	120> Fus:	Rep			-Com	pete:	nt V	irus	Exp	ress	ing	A			
	< 1	130>	HU9	8-05												
		140> 141>	•													
	<.	160>	5													
	< .	170>	Fas	tSEQ	for	Win	awob	Ver	sion	3.0						
therete therete therete the the therete the terms of the	<: <:	210> 211> 212> 213>	435 DNA		irus							-				
111 Aug 22 1	<2 <2	220> 221> 222>	(1)	(4	4359)	)										
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CCC														atc Ile		96
														gcc Ala		144
														gcc Ala		192
														acc Thr		240
		ctg Leu												tac Tyr 95	gtc Val	288

ttt cac ggc Phe His Gly	ggc cgg cac Gly Arg His 100	ctg gac ccc Leu Asp Pro	Ser Thr	cag gcc co Gln Ala Pi 13	o Asn Leu	336
acg cga ctc Thr Arg Leu 115	tgc gag cgg Cys Glu Arg	gca cgc cgc Ala Arg Arg 120	cat ttt His Phe	ggc ttt to Gly Phe Se 125	eg gac tac er Asp Tyr	384
acc ccc cgg Thr Pro Arg 130	ccc ggc gac Pro Gly Asp	ctc aaa cad Leu Lys His 135	gag acg Glu Thr	acg ggg ga Thr Gly Gl 140	ag gcg ctg lu Ala Leu	432
tgt gag cgc Cys Glu Arg 145	ctc ggc ctg Leu Gly Leu 150	gac ccg gad Asp Pro Asp	c cgc gcc Arg Ala 155	ctc ctg ta Leu Leu Ty	at ctg gtc yr Leu Val 160	480
gtt acc gag Val Thr Glu	ggc ttc aag Gly Phe Lys 165	gag gcc gtc Glu Ala Va	g tgc atc Cys Ile 170	aac aac ac Asn Asn Tl	cc ttt ctg nr Phe Leu 175	528
cae ctg gga His Leu Gly	ggc tcg gac Gly Ser Asp 180	aag gta acc Lys Val Thi	: Ile Gly	Gly Ala G.	ag gtg cac lu Val His 90	576
cgc ata ccc Arg Ile Pro 195	gtg tat ccg Val Tyr Pro	ttg cag ctg Leu Gln Leu 200	g ttc atg 1 Phe Met	ccg gat to Pro Asp Pl 205	t agc cgg ne Ser Arg	624
gtc atc gcc Vat Ile Ala 210	gag ccg ttc Glu Pro Phe	aac gcc aac Asn Ala Asi 215	c cac cga n His Arg	tcg atc gg Ser Ile G 220	gg gag aat ly Glu Asn	672
ttt acc tac Phe Thr Tyr 225	ccg ctt ccg Pro Leu Pro 230	ttt ttt aac Phe Phe Asi	c ege ece n Arg Pro 235	ctc aac co Leu Asn A	gc ctc ctg cg Leu Leu 240	720
ttc gag gcg Phe Glu Ala	gtc gtg gga Val Val Gly 245	ccc gcc gcc Pro Ala Ala	gtg gca Val Ala 250	ctg cga to Leu Arg Cy	gc cga aac ys Arg Asn 255	768
gtg gac gcc Val Asp Ala	gtg gcc cgc Val Ala Arg 260	gcg gcc gcc Ala Ala Ala 26!	a His Leu	gcg ttt ga Ala Phe As 2	sp Glu Asn	816
cac gag ggc His Glu Gly 275	gcc gcc ctc Ala Ala Leu	ccc gcc gad Pro Ala Asp 280	att acg	ttc acg go Phe Thr Al 285	cc ttc gaa la Phe Glu	864
gcc agc cag Ala Ser Gln 290	ggt aag acc Gly Lys Thr	ccg cgg gg Pro Arg Gly 295	ggg cgc Gly Arg	gac ggc gg Asp Gly G	gc ggc aag Ly Gly Lys	912
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Gly 305	Pro	Ala	Gly	Gly	Phe 310	Glu	Gln	Arg	Leu	Ala 315	Ser	Val	Met	Ala	Gly 320		
					ctc Leu											100	8
	_				atc Ile		-				_			_	_	105	6
_	-		_	_	gcc Ala		_					_		-		110	4
Ala,					gcc Ala										cat His	115	2
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					gac Asp											129	6
ggt					ccc Pro											134	4
					ctg Leu											1392	2
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					tgc Cys											1536	5
					ctc Leu											1584	1

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gac Asp 545	tgc Cys	gac Asp	gtg Val	ctg Leu	gga Gly 550	aac Asn	tac Tyr	gcc Ala	gcc Ala	ttc Phe 555	tcg Ser	gcc Ala	ctg Leu	aag Lys	cgc Arg 560	168	80
gcg Ala	gac Asp	gga Gly	tcc Ser	gag Glu 565	acc Thr	gcc Ala	cgg Arg	acc Thr	atc Ile 570	atg Met	cag Gln	gag Glu	acg Thr	tac Tyr 575	cgc Arg	172	28
Ala	gcg Ala	acc Thr	gag Glu 580	cgc Arg	gtc Val	atg Met	gcc Ala	gaa Glu 585	ctc Leu	gag Glu	acc Thr	ctg Leu	cag Gln 590	tac Tyr	gtg Val	17	76
ga A	cag Gln	gcg Ala 595	gtc Val	ccc Pro	acg Thr	gcc Ala	atg Met 600	ggg Gly	cgg Arg	ctg Leu	gag Glu	acc Thr 605	atc Ile	atc Ile	acc Thr	18:	24
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t te Phe	aag Lys	ttt Phe	cgc Arg	gac Asp 645	ggt Gly	ctg Leu	ggc Gly	gag Glu	gcc Ala 650	aac Asn	cac His	gcc Ala	atg Met	tcc Ser 655	ctg Leu	19	68
acg Thr	ctg Leu	gac Asp	ccg Pro 660	tac Tyr	gcg Ala	tgc Cys	Gly aaa	cca Pro 665	tgc Cys	ccc Pro	ctg Leu	ctt Leu	cag Gln 670	ctt Leu	ctc Leu	20	16
Gly 999	cgg Arg	cga Arg 675	tcc Ser	aac Asn	ctc Leu	gcc Ala	gtg Val 680	tat Tyr	cag Gln	gac Asp	ctg Leu	gcc Ala 685	ctg Leu	agc Ser	cag Gln	20	64
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aac Asn	Gly 999	ttt Phe	ctg Leu	tcg Ser 725	gcc Ala	aaa Lys	acg Thr	ctg Leu	acg Thr 730	gtc Val	gcg Ala	ctc Leu	tcg Ser	gag Glu 735	Gly aaa	22	08

gcg gct ato Ala Ala Ile	tgc gcc Cys Ala 740	ccc agc Pro Ser	cta acg Leu Thr 745	gcc gg Ala Gl	gc cag ly Gln	Thr A	cc ccc la Pro 50	gcc Ala	2256
gag agc ago Glu Ser Ser 75!	c Phe Glu	ggc gac Gly Asp	gtt gcc Val Ala 760	cgc gt Arg Va	g acc al Thr	ctg g Leu G 765	gg ttt ly Phe	ccc Pro	2304
aag gag ctg Lys Glu Let 770	g cgc gtc 1 Arg Val	aag agc Lys Ser 775	cgc gtg Arg Val	ttg tt Leu Ph	ne Ala 780	ggc g	cg agc la Ser	gcc Ala	2352
aac gcg tco Asn Ala Se: 785	gag gcc Glu Ala	gcc aag Ala Lys 790	gcg cgg Ala Arg	Val Al	cc agc la Ser 95	ctc c Leu G	ag agc ln Ser	gcc Ala 800	2400
tag cag aa Tyk Gln Ly	g ccc gac s Pro Asp 805	aag cgc Lys Arg	gtg gac Val Asp	atc ct Ile Le 810	tc ctc eu Leu	gga c Gly P	cg ctg ro Leu 815	ggc Gly	2448
tte ctg ct Phe Leu Le	g aag cag 1 Lys Gln 820	ttc cac Phe His	gcg gcc Ala Ala 825	atc tt Ile Ph	tc ccc he Pro	Asn G	gc aag ly Lys 30	ccc Pro	2496
cea aga te	r Asn Gln	ccg aac Pro Asn	ccg cag Pro Gln 840	tgg tt Trp Ph	tc tgg ne Trp	acg g Thr A 845	cc ctc la Leu	caa Gln	2544
cgc aac ca Arg Asn Gl: 850	g ctt ccc n Leu Pro	gcc cgg Ala Arg 855	ctc ctg Leu Leu	tcg cg Ser Ar	gc gag rg Glu 860	gac a Asp I	tc gag le Glu	acc Thr	2592
atc gcg tt Ile Ala Ph 865	c att aaa e Ile Lys	aag ttt Lys Phe 870	tcc ctg Ser Leu	gac ta Asp Ty 87	yr Gly	gcg a Ala I	ta aac le Asn	ttt Phe 880	2640
att aac cto Ile Asn Le	g gcc ccc ı Ala Pro 885	aac aac Asn Asn	gtg agc Val Ser	gag ct Glu Le 890	tg gcg eu Ala	atg t Met T	ac tac yr Tyr 895	atg Met	2688
gca aac ca Ala Asn Gl	g att ctg n Ile Leu 900	cgg tac Arg Tyr	tgc gat Cys Asp 905	cac to His Se	cg aca er Thr	Tyr P	tc atc he Ile 10	aac Asn	2736
acc ctc ac Thr Leu Th 91	r Ala Ile								2784
gcg gcg gc Ala Ala Al 930	c gcg tgg a Ala Trp	tcc gcg Ser Ala 935	cag ggc Gln Gly	ggg go	cg ggc la Gly 940	ctg g Leu G	ag gcc lu Ala	gly ggg	2832

gcc Ala 945	cgc Arg	gcg Ala	ctg Leu	atg Met	gac Asp 950	gcc Ala	gtg Val	gac Asp	gcg Ala	cat His 955	ccg Pro	ggc Gly	gcg Ala	tgg Trp	acg Thr 960	2880
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ccc Pro	atg Met	gtc Val	gtg Val 980	ttg Leu	Gly ggg	ttg Leu	agc Ser	atc Ile 985	agc Ser	aaa Lys	tac Tyr	tac Tyr	ggc Gly 990	atg Met	gcc Ala	2976
ggc Gly	aac Asn	gac Asp 995	cgt Arg	gtg Val	ttt Phe	cag Gln	gcc Ala 1000	GLY	aac Asn	tgg Trp	gcc Ala	agc Ser 100	ьeu	atg Met	ggc Gly	3024
Gly	aaa Lys 101	Asn	gcg Ala	tgc Cys	ccg Pro	ctc Leu 101!	Leu	att Ile	ttt Phe	gac Asp	cgc Arg 1020	Thr	cgc Arg	aag Lys	ttc Phe	3072
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Gly	Gly	gga Gly	gcg Ala	cac His	Glu	agc Ser	tcg Ser	ctg Leu	tgc Cys 105	Glu	cag Gln	ctc Leu	cgg Arg	ggc Gly 105	тте	3168
ILE C	tcc Ser	gag Glu	ggc Gly 106	Gly	gcg Ala	gcc Ala	gtc Val	gcc Ala 106	Ser	agc Ser	gtg Val	ttc Phe	gtg Val 107	Ala	acc Thr	3216
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aac	gcg	acg	ccg	ttc	ggc	ggc	ccg	<b>a</b> aa	gcc	ccg	gga	ccg	gca	ttt	gcc	3504

Asn	Ala	Thr 1155		Phe	Gly	Gly	Pro 116		Ala	Pro	Gly	Pro 116		Phe	Ala	
	cgc Arg 1170	Lys					Gly					Gly				3552
	_		_			Leu	-	_	_	_	Leu	_		_	999 Gly 1200	3600
	tgg Trp				Glu					Ala	_	_		_	Ser	3648
	ggc Gly			Leu					Val					Glu	ctg Leu	3696
gat Asp	ggc Gly		Val					Phe					Glu			3744
gġţ	gat Asp 1250	Āla					Leu					Ile				3792
gga	Lys					Trp					Thr				tat Tyr 1280	3840
	gtg Val				Ser					His					Āsp	3888
	ttc Phe			Ala					Tyr			Glu		Thr		3936
	ttc Phe		Asp	_				Lys				_	Val			3984
	ggt Gly 1330	Asp					Arg					Gly				4032
	gaa Glu					Leu					Glu					4080
tcc Ser	cac His	aat Asn	gtg Val	tac Tyr	atc Ile	atg Met	gcc Ala	gac Asp	aag Lys	caa Gln	aag Lys	aat Asn	ggc Gly	atc Ile	aag Lys	4128

1375 1370 1365 gtc aac ttc aag atc aga cac aac att gag gat gga tcc gtg cag ctg 4176 Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu 1390 1385 1380 gcc gac cat tat caa cag aac act cca atc ggc gac ggc cct gtg ctc 4224 Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu 1405 1400 1395 ctc cca gac aac cat tac ctg tcc acc cag tct gcc ctg tct aaa gat 4272 Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp 1420 1415 1410 ccc aac gaa aag aga gac cac atg gtc ctg ctg gag ttt gtg acc gct 4320 Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala 1435 1430 4359 gct ggg atc aca cat ggc atg gac gag ctg tac aag tga Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys 1450 1445 ÷, <210> 2 <211> 1452 ≋: <212> PRT 4550 <213> herpesvirus ļ, ģ;;;;; <400>2Glu Thr Lys Pro Lys Thr Ala Thr Thr Ile Lys Val Pro Pro Gly Pro Leu Gly Tyr Val Tyr Ala Arg Ala Cys Pro Ser Glu Gly Ile Glu Leu Leu Ala Leu Leu Ser Ala Arg Ser Gly Asp Ala Asp Val Ala Val Ala Pro Leu Val Val Gly Leu Thr Val Glu Ser Gly Phe Glu Ala Asn 55 Val Ala Val Val Gly Ser Arg Thr Thr Gly Leu Gly Gly Thr Ala 75 80 65 Val Ser Leu Lys Leu Thr Pro Ser His Tyr Ser Ser Ser Val Tyr Val 85 Phe His Gly Gly Arg His Leu Asp Pro Ser Thr Gln Ala Pro Asn Leu 105 100 Thr Arg Leu Cys Glu Arg Ala Arg Arg His Phe Gly Phe Ser Asp Tyr 120 115 Thr Pro Arg Pro Gly Asp Leu Lys His Glu Thr Thr Gly Glu Ala Leu 140 135

Cys Glu Arg Leu Gly Leu Asp Pro Asp Arg Ala Leu Leu Tyr Leu Val

Val Thr Glu Gly Phe Lys Glu Ala Val Cys Ile Asn Asn Thr Phe Leu

His Leu Gly Gly Ser Asp Lys Val Thr Ile Gly Gly Ala Glu Val His

185

155

170

### Mind ## Affilia Managaring and a security ## 1 Mind ## Affilia ## 1 Mind ## 1 Mi

150

165

Arg Ile Pro Val Tyr Pro Leu Gln Leu Phe Met Pro Asp Phe Ser Arg 200 205 Val Ile Ala Glu Pro Phe Asn Ala Asn His Arg Ser Ile Gly Glu Asn 215 Phe Thr Tyr Pro Leu Pro Phe Phe Asn Arg Pro Leu Asn Arg Leu Leu 235 230 Phe Glu Ala Val Val Gly Pro Ala Ala Val Ala Leu Arg Cys Arg Asn 245 250 Val Asp Ala Val Ala Arg Ala Ala Ala His Leu Ala Phe Asp Glu Asn 265 270 260 His Glu Gly Ala Ala Leu Pro Ala Asp Ile Thr Phe Thr Ala Phe Glu 280 Ala Ser Gln Gly Lys Thr Pro Arg Gly Gly Arg Asp Gly Gly Lys 295 Gly Pro Ala Gly Gly Phe Glu Gln Arg Leu Ala Ser Val Met Ala Gly 310 315 Asp Ala Ala Leu Ala Leu Glu Ser Ile Val Ser Met Ala Val Phe Asp 325 330 Glu Pro Pro Thr Asp Ile Ser Ala Trp Pro Leu Cys Glu Gly Gln Asp 345 Thr Ala Ala Ala Arg Ala Asn Ala Val Gly Ala Tyr Leu Ala Arg Ala 360 365 Ala Gly Leu Val Gly Ala Met Val Phe Ser Thr Asn Ser Ala Leu His 375 Leu Thr Glu Val Asp Asp Ala Gly Pro Ala Asp Pro Lys Asp His Ser 390 395 Lys Pro Ser Phe Tyr Arg Phe Phe Leu Val Pro Gly Thr His Val Ala 410 405 Ala Asn Pro Gln Val Asp Arg Glu Gly His Val Val Pro Gly Phe Glu 425 Gly Arg Pro Thr Ala Pro Leu Val Gly Gly Thr Gln Glu Phe Ala Gly 440 Glu His Leu Ala Met Leu Cys Gly Phe Ser Pro Ala Leu Leu Ala Lys 455 Met Leu Phe Tyr Leu Glu Arg Cys Asp Gly Gly Val Ile Val Gly Arg 475 470 Gln Glu Met Asp Val Phe Arg Tyr Val Ala Asp Ser Asn Gln Thr Asp 490 485 Val Pro Cys Asn Leu Cys Thr Phe Asp Thr Arg His Ala Cys Val His 505 Thr Thr Leu Met Arg Leu Arg Ala Arg His Pro Lys Phe Ala Ser Ala 520 Ala Arg Gly Ala Ile Gly Val Phe Gly Thr Met Asn Ser Met Tyr Ser 535 Asp Cys Asp Val Leu Gly Asn Tyr Ala Ala Phe Ser Ala Leu Lys Arg 550 555 Ala Asp Gly Ser Glu Thr Ala Arg Thr Ile Met Gln Glu Thr Tyr Arg 565 570 Ala Ala Thr Glu Arg Val Met Ala Glu Leu Glu Thr Leu Gln Tyr Val 580 585 Asp Gln Ala Val Pro Thr Ala Met Gly Arg Leu Glu Thr Ile Ile Thr 600 Asn Arg Glu Ala Leu His Thr Val Val Asn Asn Val Arg Gln Val Val

_	610 Arg	Glu	Val	Glu	Gln 630	615 Leu	Met	Arg	Asn	Leu 635	620 Val	Glu	Gly	Arg	Asn 640
		Phe		645	Gly				650	Asn				655	
		Asp	660	Tyr				665					6/0		
_		Arg 675	Ser				680					685			
_	690	Gly				695					700				
705		Phe			710					715					120
		Phe		725					730					135	
1 2		Ile	740					745					750		
2554.		Ser 755					760					765			
q <sub>24</sub> ; 4445.	770	Leu				775					780				
70流		Ser			790					795					800
Tyr	Gln	Lys		805					8 T O					SID	
ર્વે <sub>ક કરા</sub> કે		Leu	820					825					830		
		Ser 835					840					845			
	850	Gln				855					860				
865		Phe			870					875					880
		Leu		885					890					895	
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		Thr 915					920					925			
	930	Ala				935					940				
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		Phe		965					970					975	
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	101	0				101	5				102	0			Phe
Val 102		. Ala	Cys	Pro	Arg 103		Gly	Phe	Val	Cys 103	Ala 5	Ala	ser	Asn	Leu 1040

and a big little for an angular that the state of the sta

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                                    1050
                                                         1055
                1045
Ile Ser Glu Gly Gly Ala Ala Val Ala Ser Ser Val Phe Val Ala Thr
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            1060
Val Lys Ser Leu Gly Pro Arg Thr Gln Gln Leu Gln Ile Glu Asp Trp
                                                 1085
                            1080
        1075
Leu Ala Leu Leu Glu Asp Glu Tyr Leu Ser Glu Glu Met Met Glu Leu
                                             1100
                        1095
Thr Ala Arg Ala Leu Glu Arg Gly Asn Gly Glu Trp Ser Thr Asp Ala
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                    1110
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                                     1130
                1125
Asn Ala Gly Glu Val Phe Asn Phe Gly Asp Phe Gly Cys Glu Asp Asp
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            1140
Asn Ala Thr Pro Phe Gly Gly Pro Gly Ala Pro Gly Pro Ala Phe Ala
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                            1160
        1155
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                                             1180
                         1175
  1170
Pro Asp Lys Lys Gly Asp Leu Thr Leu Asp Met Leu Arg Gly Val Gly
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                    1190
Gly Trp Gly Asn Leu Glu Ser Thr Arg Ala Ala Ala Ala Thr Met Ser
                                     1210
                1205
Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu
                                1225
            1220
   Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu
                                                 1245
                             1240
       1235
Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr
                         1255
                                             1260
Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Phe Thr Tyr
                                                             1280
                                         1275
                     1270
1265
Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Gln His Asp
                                     1290
                1285
Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile
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                                                     1310
            1300
Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe
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        1315
Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe
                                             1340
                         1335
Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn
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                    1350
Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys
                                                         1375
                                     1370
                 1365
Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Ser Val Gln Leu
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            1380
Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu
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                             1400
Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp
                         1415
                                             1420
    1410
Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Glu Phe Val Thr Ala
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Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
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      <213> Artificial Sequence
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      <223> a sense molecule used tomodify the stop codon
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<223> an anti-sense molecule used to modify the stop
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